

HD54-05

High Density (HMW) Polyethylene

HD54-05 is a High Molecular Weight Hexene certified prime copolymer developed for blow molding of high performance medium to large size industrial containers. **HD54-05** features High-Swell, consistent processability, outstanding combination of ESCR, Impact strength, Stiffness, Creep resistance, and excellent chemical resistance. **HD54-05** recommended processing temperature is 210 to 230°C.. **HD54-05** complies with FDA regulation 21CFR 177.1520 (c) 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
PHYSICAL			
Melt Flow Rate (190 ° C, 2.16kg)	D1238	g/10 min	0.028
Density	D1505	g/cm ³	0.954
Env. Stress Crack Resistance (Comp. F50)	D1693	hr	>1000
MECHANICAL			
Flexural Modulus ¹	D790	psi	170k
Tensile Strength @ Yield ²	D638	psi	3770
Elongation @ Break ²	D638	%	800
Tensile Impact Strength	D1822	ft. lb/in ²	181
HDT Under Load (264 psi, unannealed)	D648	° F	113

Typical Value of Properties not to be construed as specifications

* Test Made on injection molded Type 1 tension test specimen according to ASTM D2146

1 - @ 0.51 in/min

2 - @ 2 in/min.



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